

Name: _____

pa1030: Box multiplication of linear binomials (v3)

Example

Use the box method to multiply $(6x + 3)$ and $(2x + 4)$.

| * | $6x$ | 3 | |
|------|---------|------|-------------------------|
| $2x$ | $12x^2$ | $6x$ | $12x^2 + 6x + 24x + 12$ |
| 4 | $24x$ | 12 | Combine like terms. |
| | | | $12x^2 + 30x + 12$ |

ANSWER: $12x^2 + 30x + 12$

Question 1

Use the box method to multiply $(6x + 3)$ and $(5x + 7)$.

| * | $6x$ | 3 | |
|------|------|-----|--|
| $5x$ | | | |
| 7 | | | |

ANSWER:

Question 2

Use the box method to multiply $(-3x + 4)$ and $(5x + 9)$.

| * | $-3x$ | 4 |
|------|-------|-----|
| $5x$ | | |
| 9 | | |

ANSWER:

Question 3

Use the box method to multiply $(9x - 6)$ and $(-3x + 8)$.

| * | | |
|---|--|--|
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| | | |

ANSWER: